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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,808	01/30/2004	Fusao Yamanaka	Q79650	3121
23373	7590 01/13/2006		EXAMINER	
SUGHRUE MION, PLLC			NGUYEN, DUNG T	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2828	-

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/766,808	YAMANAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dung (Michael) T. Nguyen	2828				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address °				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status .						
1) Responsive to communication(s) filed on 15 De	ecember 2005.	·				
	<u> </u>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3</u> is/are pending in the application.						
4a) Of the above claim(s) 2 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	г.					
10)⊠ The drawing(s) filed on <u>30 January 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
=	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau * See the attached detailed Office action for a list		od.				
See the attached detailed Office action for a list	or the certified copies not receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/14/04. 1/30/04	Paper No(s)/Mail Da 5) ☐ Notice of Informal P 6) ☐ Other:	atent Application (PTO-152)				
,,						

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of the Group I invention (claims 1 and 3) in the reply filed on 12/15/05 is acknowledged.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: the reference number 12. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okazaki et al. (2002/0090172) in view of Fujiwara (4360965).

With respect to claims 1-3, Okazaki et al. show in Fig.1 and 3 a laser module comprising: an optical fiber (30);

a laser element (LD1-LD7) which includes,

a heat sink (10) which is made of copper (paragraph 0055, lines 7), and has a fixation surface having a predetermined shape (flat top surface), and

a nitride-based semiconductor laser bar which has least three light-emission points formed on a substrate, emits laser beams from the at least three light-emission points (paragraph 0029),

and an optical condensing system (20) which optically multiplexes said laser beams, and makes the optically multiplexed laser beams enter said optical fiber.

Okazaki et al. lack the process of the semiconductor laser bar being bonded to the heat sink with a brazing material containing gold and one of tin and silicon as main components, by pressing the semiconductor laser bar toward the fixation surface with a tool having a shape corresponding to the predetermined shape of the fixation surface during a brazing operation.

Fujiwara teaches in Fig.4 the process of the semiconductor laser (24) being bonded to the heat sink (23) with a brazing material containing gold and tin as main

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components (column 5, lines 20-21), by pressing the semiconductor laser toward the fixation surface (flat top surface) with a tool (vacuum collet) (41) having a shape corresponding to the predetermined shape of the fixation surface during a brazing operation (column 5, lines 19-22).

Okazaki et al. and Fujiwara are under the same analogous art of semiconductor laser device.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Okazaki et al. what is taught by Fujiwara in order to manufacture a semiconductor laser device which is mounted and bonded to a heat sink with a low thermal resistance value and rigid mechanical coupling property and also to ensure the semiconductor laser device producing a high output power and having a long operating life (column 2, lines 50-54 and 59-64) for optical communication systems.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen
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